

REMARKS: WELL LOG ELECTRIC LOG FILE X WATER SANDS LOCATION 1 DATED 11/1/68 SUB. REPORT/abd. 11/1/68

REMARKS: WELL LOG ELECTRIC LOG FILE WATER SANDS LOCATION 1 DATED SUB. REPORT/abd.

99-01-09 Conf Exp:

LOCATION	1979 FSL	FT. FROM (N) (S) LINE,	1980 FEL	FT. FROM (E) (W) LINE.	NW SE	1/4 - 1/4 SEC.	33
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TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
4S	3W	33	PETROGLYPH OPERATING				

## GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Eibert
<i>B MKR 4138</i>	Dakota	Park City	McCracken
<i>L MKR 4640</i>	Burro Canyon	Rico (Goodridge)	Aneth
<i>Douglas Crk 4787</i>	Cedar Mountain	Supai	Simonson Dolomite
<i>B - Tonostone 5184</i>	Buckhorn	Wolfcamp	Sevy Dolomite
<i>Castle Pk 5764</i>	JURASSIC	CARBON I FEROUS	North Point
<i>Weather Basal Crk 6148</i>	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	SSIC		

ACME VISIBLE

100730

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-4736
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR PETROGLYPH OPERATING CO., INC.		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. P.O. BOX 607, ROOSEVELT, UTAH 84066		8. FARM OR LEASE NAME, WELL NO. UTE TRIBAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1979' FSL & 1980' FEL NW/SE At proposed prod. zone		9. API WELL NO. #33-10-D3
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 16 MILES SOUTHWEST OF MYTON, UTAH		10. FIELD AND POOL, OR WILDCAT ANTELOPE CREEK
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1979' ±	16. NO. OF ACRES IN LEASE 617.20	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 33, T4S, R3W
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 6512'	12. COUNTY OR PARISH DUCHESNE
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5822.0' GRADED GROUND	20. ROTARY OR CABLE TOOLS ROTARY	13. STATE UTAH
22. APPROX. DATE WORK WILL START* AUGUST 1997		

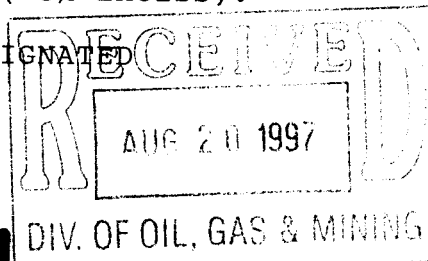
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	250'	135 sx class "G" + 2% CaCl <sub>2</sub> + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11 PPG) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+5% EXCESS).
7 7/8"	5 1/2"	15.5#	6512'	

CONFIDENTIAL

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.

pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, Utah



CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24. SIGNED [Signature] TITLE AGENT FOR PETROGLYPH DATE 8-14-97

(This space for Federal or State office use)

PERMIT NO. 43-013-31735

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Associate Director DATE 9/15/97

\*See Instructions On Reverse Side

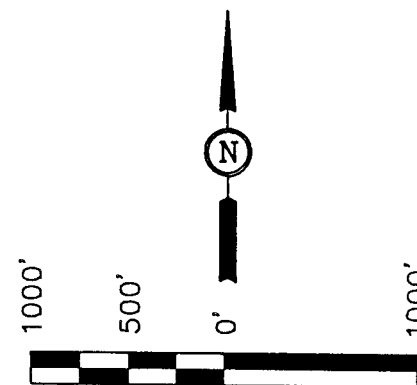
**T4S, R3W, U.S.B.&M.**

**PETROGLYPH OPERATING CO., INC.**

Well Location, UTE TRIBAL #33-10-D3,  
located as shown in the NW 1/4 SE 1/4 of  
Section 33, T4S, R3W, U.S.B.&M. Duchesne  
County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION  
33, T4S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE  
QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE  
SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED  
STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL  
SURVEY. SAID ELEVATION IS MARKED AS BEING 5938  
FEET.



SCALE

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
STATE OF UTAH  
REGISTRATION NO. 781319  
DATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**

**85 SOUTH 200 EAST - VERNAL, UTAH 84078**

**(801) 789-1017**

SCALE 1" = 1000'	DATE SURVEYED: 7-3-97	DATE DRAWN: 7-18-97
PARTY L.D.T. B.H. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PETROGLYPH OPERATING CO., INC.	

S89°55'W - 80.50 (G.L.O.)

Pile of Stones,  
5/8" Rebar

N00°19'08"W - 2638.37' (Meas.)

Pile of Stones,  
Set 5/8" Rebar

N00°29'08"W - 2432.13' (Meas.)

C.C. Marked Stone,  
Pile of  
Stones

A.P. Pile  
of Stones

N89°54'41"E - 5305.35' (Meas.)

S89°55'15"W  
379.48'

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- A.P. = ANGLE POINT

NOTE:  
BASIS OF BEARINGS IS THE  
EAST LINE OF THE NE 1/4  
OF SECTION 5, T5S, R3W,  
U.S.B.&M. WHICH IS ASSUMED  
FROM G.L.O. INFORMATION TO  
BEAR N0°02'E

**33**

**UTE TRIBAL #33-10-D3**  
Elev. Ungraded Ground - 5823'

1980'

1979'

Lot 4

Lot 3

Lot 2

Lot 1

N89°26'42"E  
362.25'

C.C. Set Stone,  
Pile of Stones, 1/2"  
Rebar, Plastic Cap

A.P. Pile  
of Stones

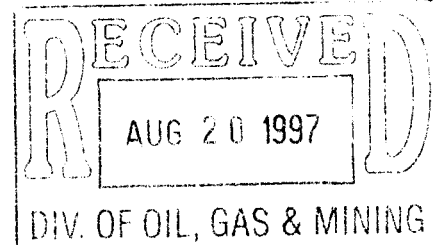
S0°03'E - 40.00 (G.L.O.)

N00°00'10"E - 2453.70' (Meas.)

**Petroglyph Operating Co., Inc.**  
**P.O. Box 1839**  
**Hutchinson, KS 67504-1839**

August 14, 1997

Utah Division of Oil, Gas, & Mining  
1594 West North Temple  
Box 145801  
Salt Lake City, UT 84114-5801



RE: APPLICATION FOR PERMIT TO DRILL  
UTE TRIBAL #33-10-D3  
NW/SE, SEC. 33, T4S, R3W  
DUCHESNE COUNTY, UTAH  
LEASE NO. 14-20-H62-4736  
SURFACE OWNER: ELMER R. &  
ARWELLA P. MOON MOON

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone # (801) 789-4120  
Fax # (801) 789-1420

Sincerely,

Ed Trotter  
Agent

**Petroglyph Operating Co., Inc.**

Attachments

/EHT/dmt

EIGHT POINT PLAN

UTE TRIBAL #33-10-D3  
NW/SE, SEC. 33, T5S R3W  
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	3020	2812
"X" Marker	4657	1175
Douglas Creek	4814	1018
"B" Limestone	5215	617
B/Castle Peak Limestone	5802	30
Basal Carbonate Limestone	6182	-350
Total Depth	6512	-680
Anticipated BHP	2000 psi	

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4814	1018
Oil/Gas	B/Castle Peak	5802	30
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

						<u>MINIMUM SAFETY FACTOR</u>		
<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6512'	6512'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #33-10-D3  
NW/SE, SEC. 33, T5S R3W  
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'  
250' - 4000'  
4000' - TD  
TD

MUD TYPE

Air  
Air/Mist & Aerated Water  
Air/3% KCL water or KCL substitute  
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface csg.
Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed  
DST: None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL #33-10-D3  
NW/SE SEC. 33, T5S R3W  
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

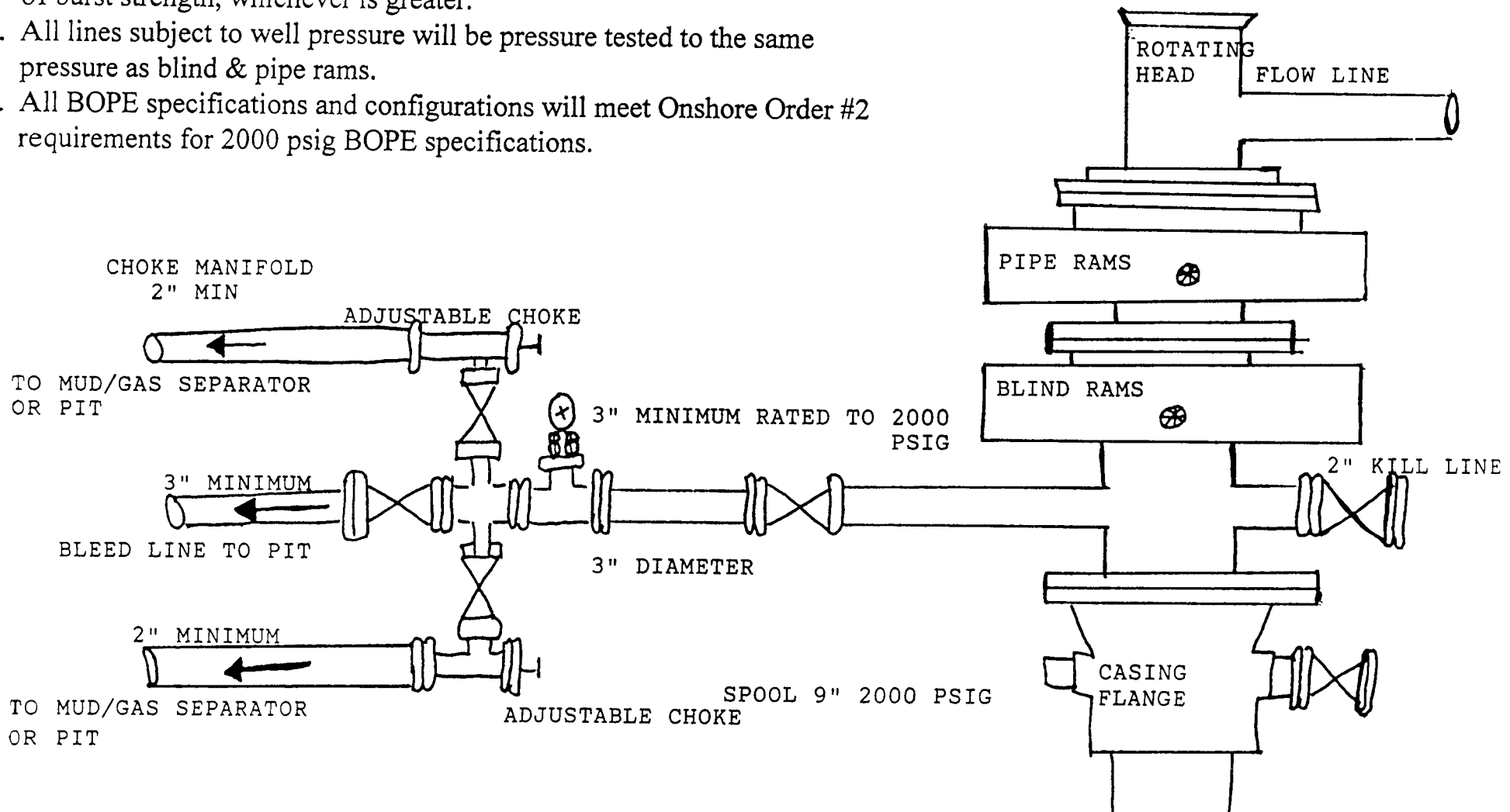


## 2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.  
CASING FLANGE IS 9" 2000 PSIG RATED.  
BOPE 9" 2000 PSIG

### TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company  
Well Name & Number: UTE TRIBAL #33-10-D3  
Lease Number: 14-20-H62-4736  
Location: 1979' FSL & 1980' FEL, NW/SE, Sec. 33, T4S, R3W  
U.S.B.&M., Duchesne County, Utah  
Surface Ownership: Elmer R. & Arwella P. Moon

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing - twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related Equipment Tests - twenty-four (24) hours prior to running casing and tests.

First Production Notice - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

## THIRTEEN POINT SURFACE USE PROGRAM

### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 16 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.3 miles in length.  
See attached TOPO Map "B"
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Company shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - None
  - B. Abandoned wells - None
  - C. Temporarily abandoned wells - None.
  - D. Disposal wells - None.
  - E. Drilling wells - None.
  - F. Producing wells - 12\*
  - G. Shut in wells - None
  - H. Injection wells - None
- (\*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities - None
- 3. Oil gathering lines - None
- 4. Gas gathering lines- None
- 5. Injection lines - None

6. Disposal lines - None
7. Surface pits - None

**B. OFF WELL PAD**

1. A 4 1/2" OD steel above ground natural gas pipeline will be laid approximately 1200' from proposed location to a point in the NE/SE of Section 33, T4S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline. Proposed pipeline crosses privately owned surface, thus a Right-of-Way grant will be required.
2. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
3. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.  
If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery.  
The production facilities will be placed on the Southeast side of the location.

**5. LOCATION & TYPE OF WATER SUPPLY**

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

**6. SOURCE OF CONSTRUCTION MATERIAL**

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Private Land.
- C. No mineral materials will be required.

## 7. METHODS OF HANDLING WASTE DISPOSAL

### A. METHODS AND LOCATION

1. Cuttings will be confined in the reserve pit.
2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Roosevelt sewage disposal plant.
3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.

- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

#### On Privately owned surface :

The reserve pit will be constructed so as not to leak, break, or allow discharge.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with Onshore Order No.7, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

## 8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

## 9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the Northwest side of the location.

The flare pit will be located downwind of the prevailing wind direction on the Northwest side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the South corner.

Access to the well pad will be from the Southeast.

N/A Diversion ditch(es) shall be constructed on the \_\_\_\_\_ side of the location (above/below) the cut slope, draining to the \_\_\_\_\_

N/A Soil compacted earthen berm(s) shall be placed on the \_\_\_\_\_ side(s) of the location between the \_\_\_\_\_

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons \_\_\_\_\_

X Corner No. 8 will be rounded off to minimize excavation.

## FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- C. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM or SMA specifications.

## 10. PLANS FOR RESTORATION OF SURFACE

### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for



production facilities/operations will be recontoured to the approximate natural contours.

**B. DRY HOLE/ABANDONED LOCATION**

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment.

**11. SURFACE OWNERSHIP**

Access road: Private

Location: Private

**12. Additional Surface Stipulations**

N/A No construction or drilling activities shall be conducted between \_\_\_\_\_ and \_\_\_\_\_ because of \_\_\_\_\_

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately \_\_\_\_\_ ft. \_\_\_\_\_ of the location, as flagged on onsite.

**LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION**

**PERMITTING**

Ed Trotter

P.O. Box 1910

Vernal UT 84078

Telephone # (801)789-4120

Fax # (801) 789-1420

**OPERATIONS**

Vince Guinn

P.O. Box 607

Roosevelt, UT 84066

(801) 722-2531

Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to

Lessees. Petroglyph Operating Company is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

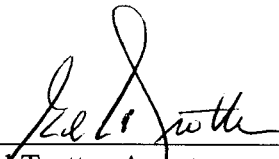
A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Company and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

8-14-97

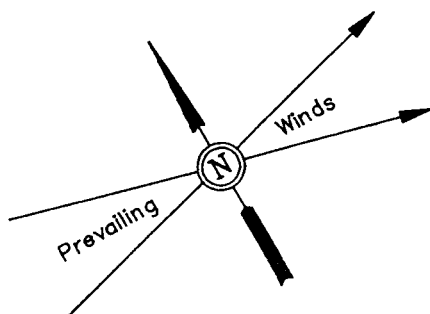
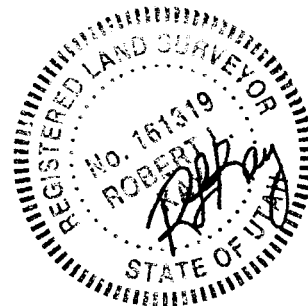
Date

  
\_\_\_\_\_  
Ed Trotter-Agent-  
Petroglyph Operating Company

# PETROGLYPH OPERATING CO., INC.

## LOCATION LAYOUT FOR

UTE TRIBAL #33-10-D3  
SECTION 33, T4S, R3W, U.S.B.&M.  
1979' FSL 1980' FEL



SCALE: 1" = 50'  
DATE: 7-18-97  
Drawn By: C.B.T.

### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

FLARE PIT



El. 26.1'  
**C-12.1'**  
(btm. pit)

Reserve Pit Backfill & Spoils Stockpile

Approx. Top of Cut Slope

El. 27.6'  
**C-13.6'**  
(btm. pit)

NOTE: Pit Capacity W/2' of Freeboard is ±4,600 Bbls.

Existing Drainage

**C-3.0'**  
El. 25.0'

60'

RESERVE PITS (8' Deep)

Sta. 0+67

El. 24.5'  
**C-2.5'**

El. 25.5'  
**C-3.5'**

Re-route Drainage as Needed

**F-0.3'**  
El. 21.7'

**F-2.2'**  
El. 19.8'

**F-6.9'**  
El. 15.1'

Sta. 2+90

Spoils Stockpile

DATA

CATWALK 125'

Round Corners as Needed

PIPE RACKS

**C-0.5'**  
El. 22.5'

40'

RIG

DOG HOUSE

115'

Sta. 1+65

**C-2.8'**  
El. 24.8'

MUD TANKS

PUMP

MUD SHED

TOILET

HOPPER

POWER

TOOLS

FUEL

TRAILER

FUEL

STORAGE TANK

Approx. Toe of Fill Slope

Sta. 0+00

**C-1.8'**  
El. 23.8'

**F-3.2'**  
El. 18.8'

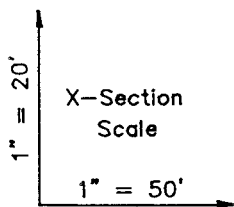
Topsoil Stockpile

Proposed Access Road

Elev. Ungraded Ground at Location Stake = 5822.5'

Elev. Graded Ground at Location Stake = 5822.0'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 788-1017



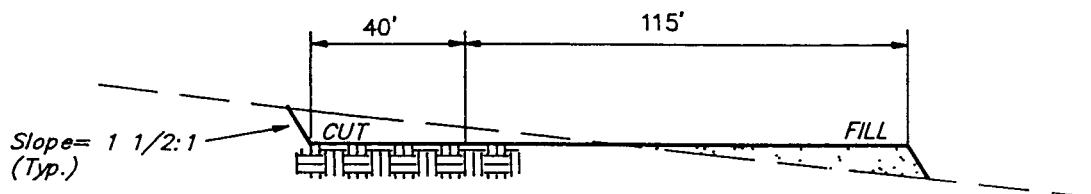
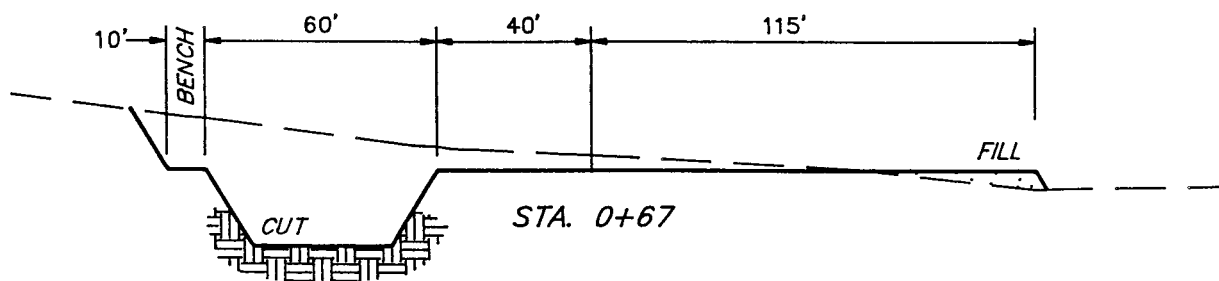
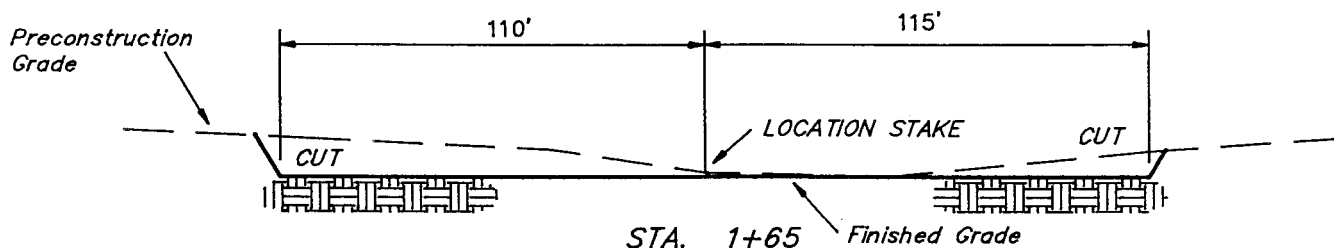
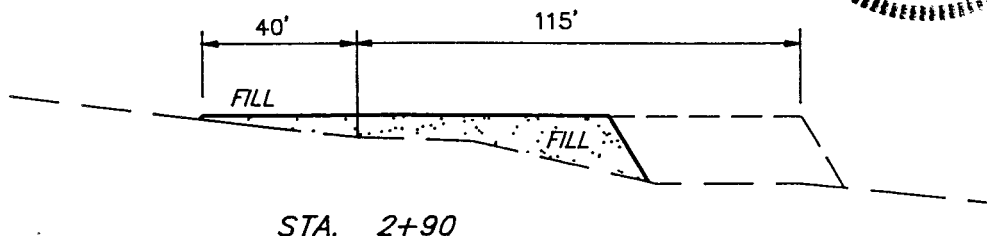
# PETROGLYPH OPERATING CO., INC.

## TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #33-10-D3  
SECTION 33, T4S, R3W, U.S.B.&M.  
1979' FSL 1980' FEL



DATE: 7-18-97  
Drawn By: C.B.T.



### NOTE:

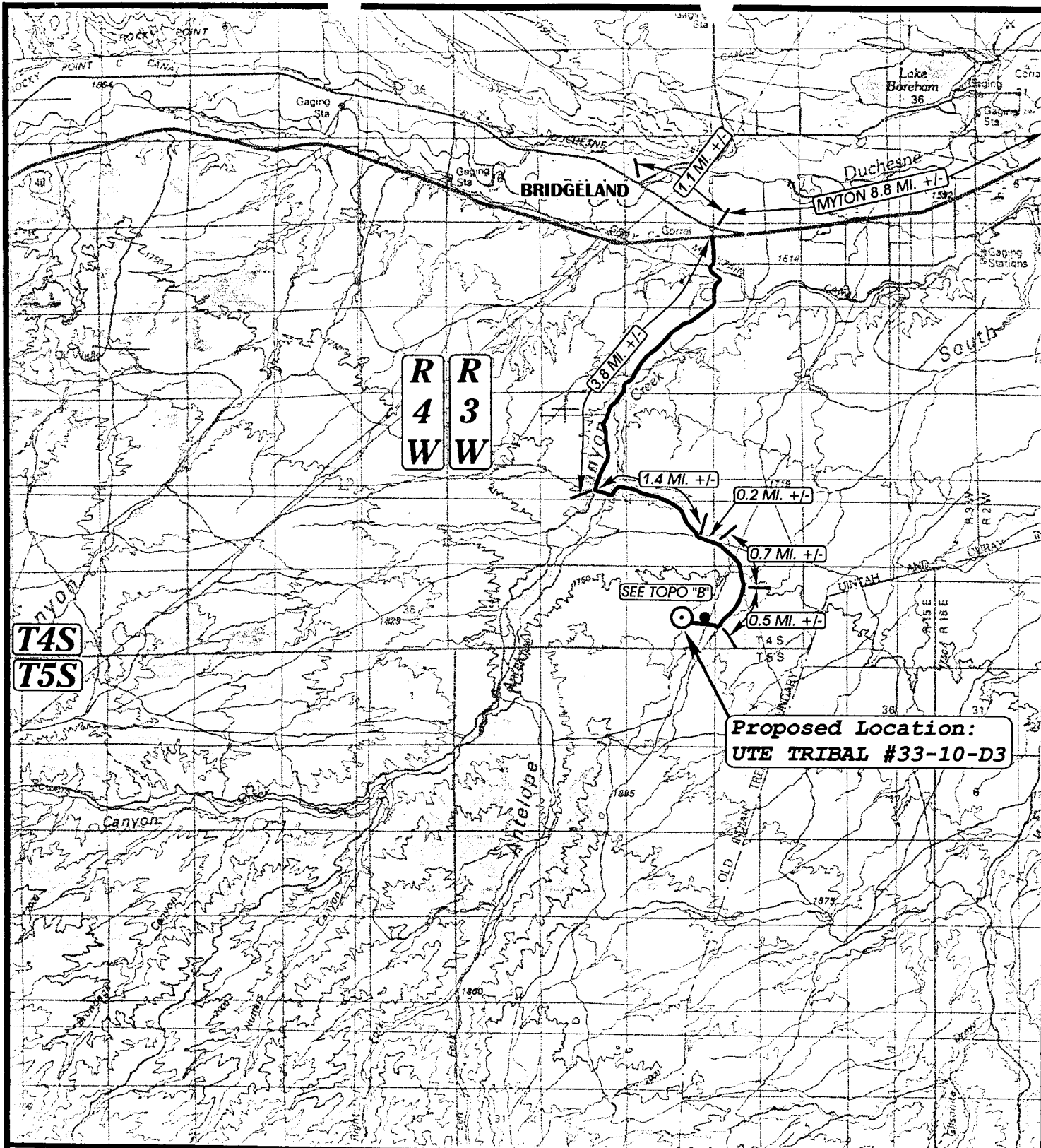
Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

### APPROXIMATE YARDAGES

(6") Topsoil Stripping = 960 Cu. Yds.  
Remaining Location = 3,320 Cu. Yds.  
TOTAL CUT = 4,280 CU.YDS.  
FILL = 2,030 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 2,140 Cu. Yds.  
Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 1,650 Cu. Yds.  
EXCESS UNBALANCE = 790 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



# LEGEND:

○ PROPOSED LOCATION



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #33-10-D3

SECTION 33, T4S, R3W, U.S.B.&M.

1979' FSL 1980' FEL



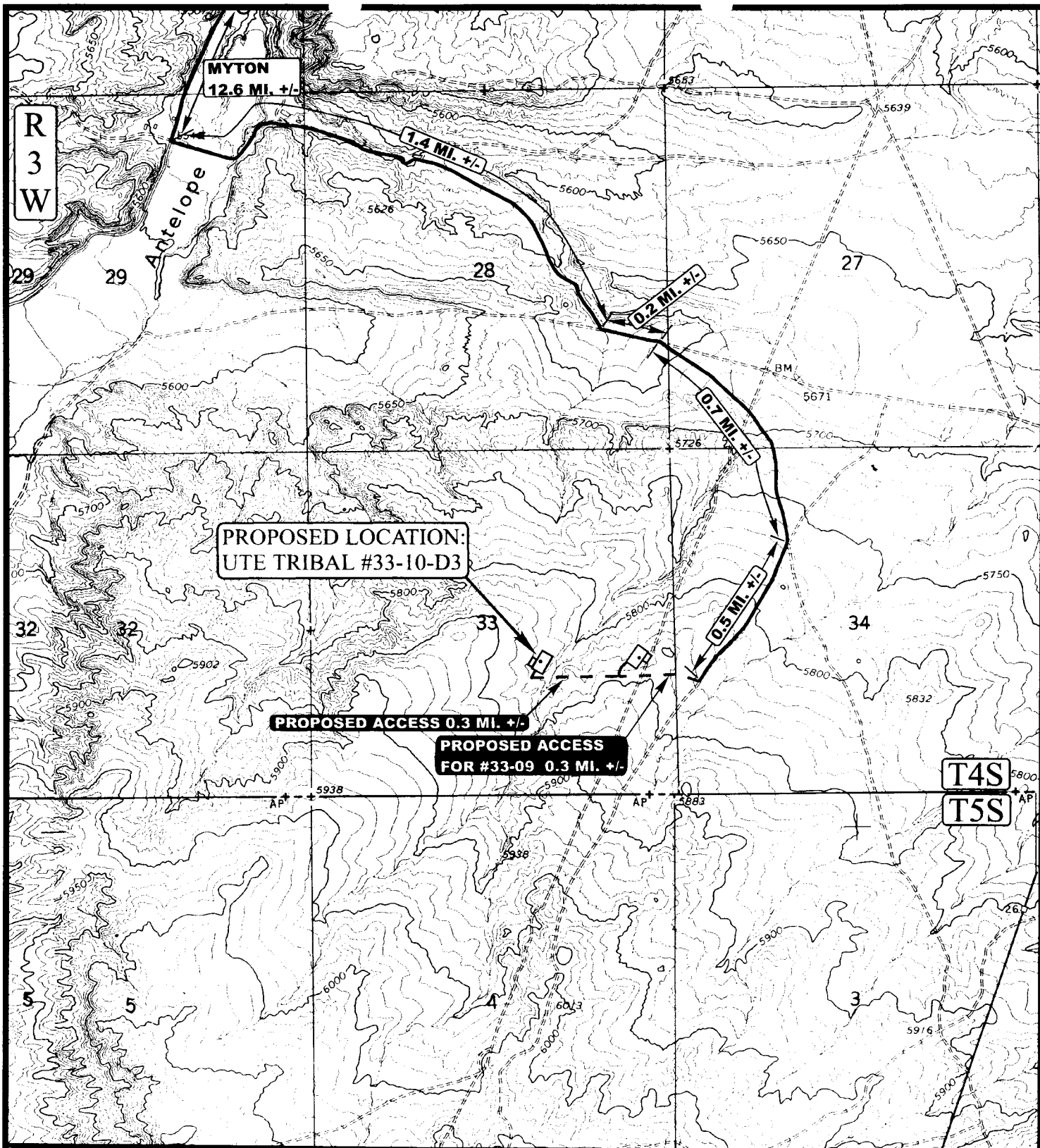
Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(801) 789-1017 \* FAX (801) 789-1813  
Email: ucls@casilink.com

TOPOGRAPHIC  
MAP

7 10 97  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 00-00-00

A  
TOPO



# LEGEND:

--- PROPOSED ACCESS ROAD  
— EXISTING ROAD

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #33-10-D3  
SECTION 33, T4S, R3W, U.S.B.&M.  
1979' FSL 1980' FEL



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85 South 200 East Vernal, Utah 84078  
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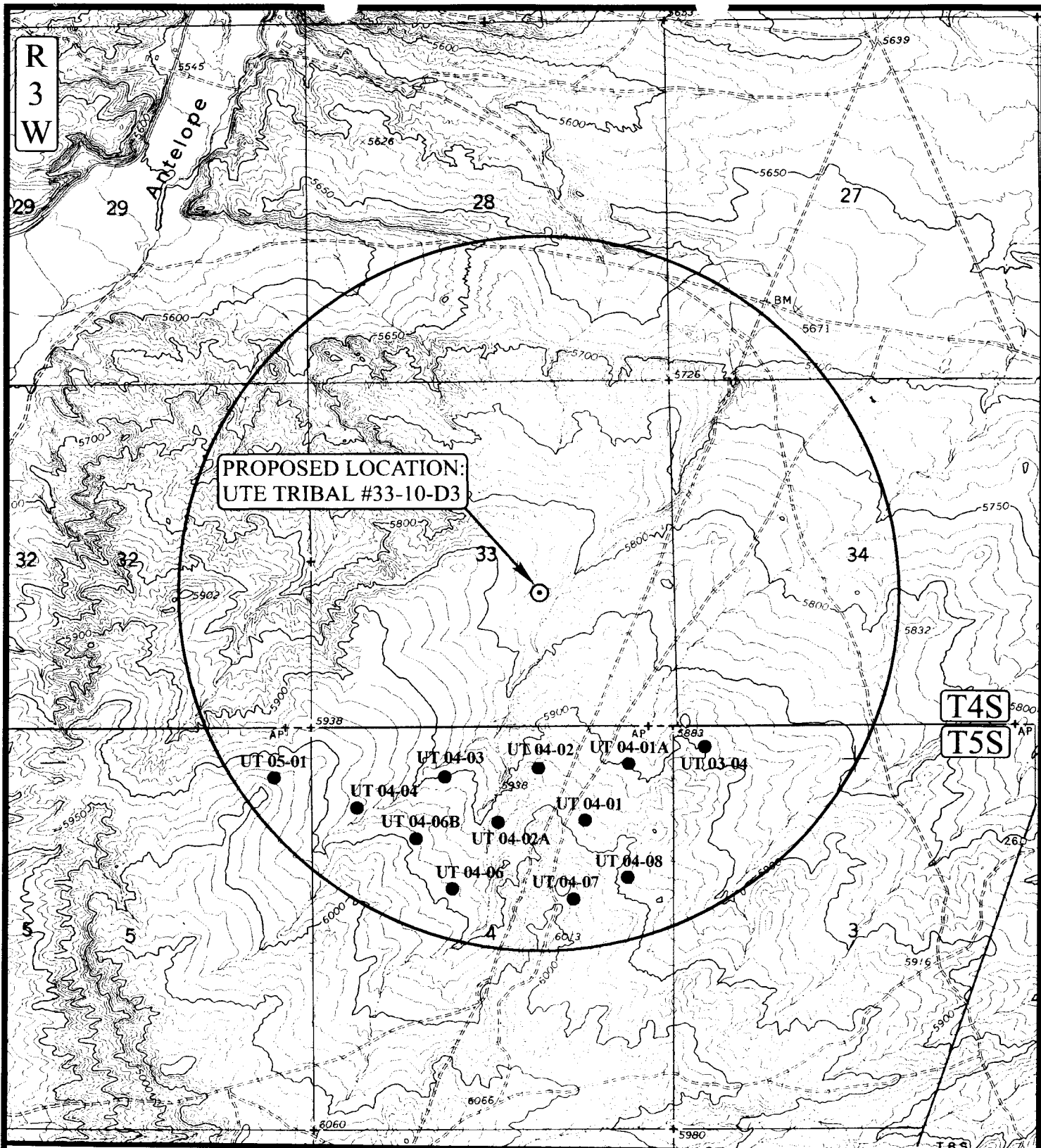


**TOPOGRAPHIC  
MAP**

**7 10 97**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

**B**  
**TOPO**



# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #33-10-D3  
SECTION 33, T4S, R3W, U.S.B.&M.  
1979' FSL 1980' FEL



Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(801) 789-1017 \* FAX (801) 789-1813  
Email: uels@casilink.com

TOPOGRAPHIC  
MAP

7 10 97  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00



D  
TOPO



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/20/97

API NO. ASSIGNED: 43-013-31935

WELL NAME: UTE TRIBAL 33-10-D3  
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

NWSE 33 - T04S - R03W  
SURFACE: 1979-FSL-1980-FEL  
BOTTOM: 1979-FSL-1980-FEL  
DUCHESNE COUNTY  
UNDESIGNATED FIELD (002)

LEASE TYPE: IND  
LEASE NUMBER: 14-20-H62-4736

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Federal ☒ State ☐ Fee ☐  
(Number 4556)  
☒ Potash (Y/N)  
☒ Oil shale (Y/N)  
☒ Water permit  
(Number 43-10152)  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
☒ R649-3-2. General.  
\_\_\_ R649-3-3. Exception.  
\_\_\_ Drilling Unit.  
\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_ Date: \_\_\_\_\_

COMMENTS: Conf. status req.

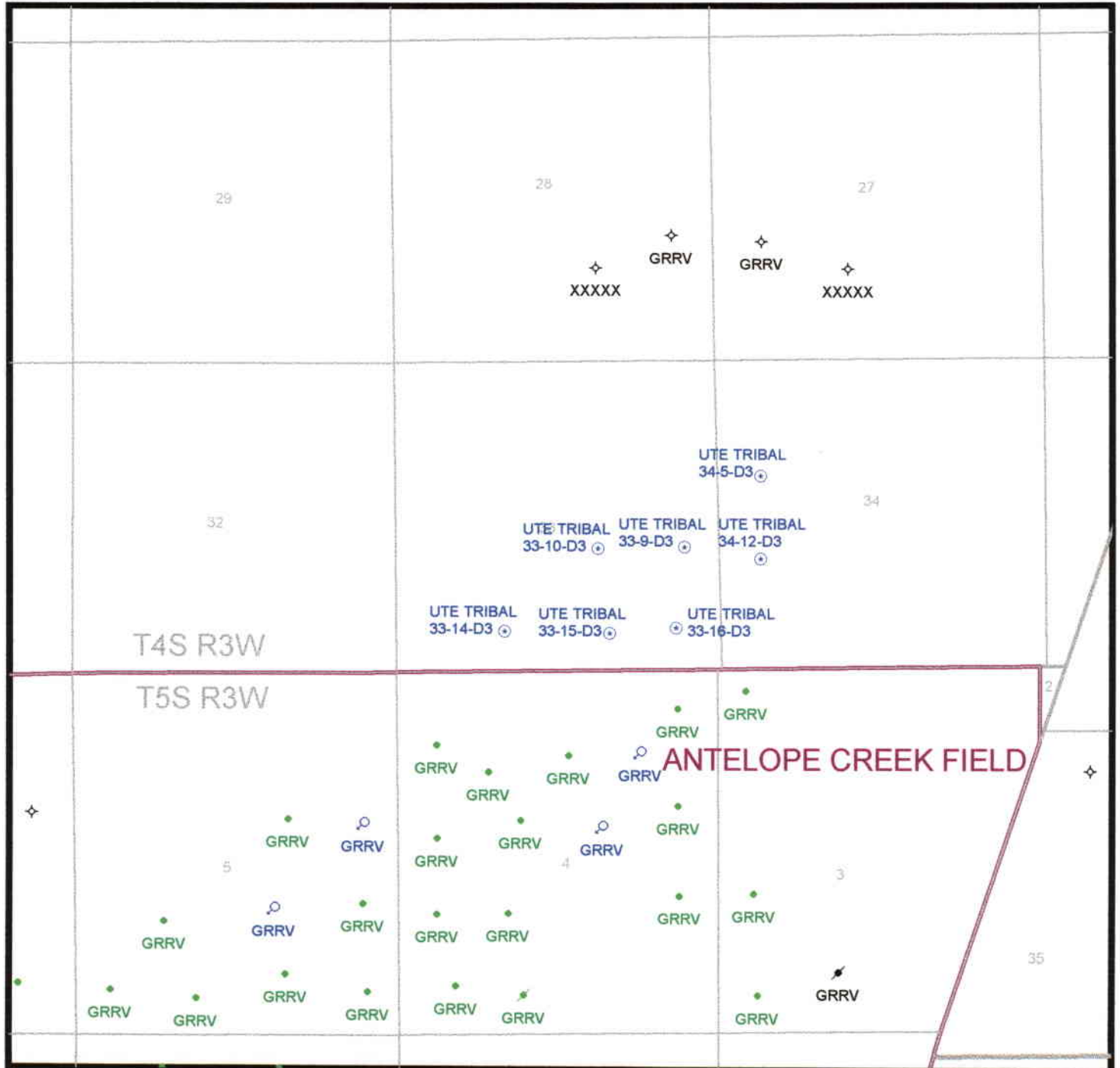
STIPULATIONS: \_\_\_\_\_

OPERATOR: PETROGLYPH (N3800)

FIELD: UNDESIGNATED (002)

SEC, TWP, RNG: 33 & 34, T4S, R3W

COUNTY: DUCHESNE UAC: R649-3-2



PREPARED:  
DATE: 21-AUG-97



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

September 15, 1997

Petroglyph Operating Company  
P.O. Box 607  
Roosevelt, Utah 84066

Re: Ute Tribal 33-10-D3 Well, 1979' FSL, 1980' FEL, NW SE,  
Sec. 33, T. 4 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31935.

Sincerely,

John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company  
Well Name & Number: Ute Tribal 33-10-D3  
API Number: 43-013-31935  
Lease: 14-20-H62-4736  
Location: NW SE Sec. 33 T. 4 S. R. 3 W.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

PETROGLYPH OPERATING CO., INC.

## 3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UTAH 84066

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)

At surface

1979' FSL &amp; 1980' FEL NW/SE

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

16 MILES SOUTHWEST OF MYTON, UTAH

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any) 1979' ±

## 16. NO. OF ACRES IN LEASE

617.20

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6512'

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5822.0' GRADED GROUND

## 22. APPROX. DATE WORK WILL START\*

AUGUST 1997

## 23.

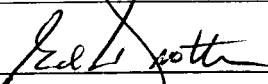
## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	250'	135 sx class "G" + 2% CaCl <sub>2</sub> + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11 PPG) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+5% EXCESS).
7 7/8"	5 1/2"	15.5#	6512'	

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, UtahIN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or  
deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED



TITLE AGENT FOR PETROGLYPH

DATE

8-14-97

(This space for Federal or State office use)

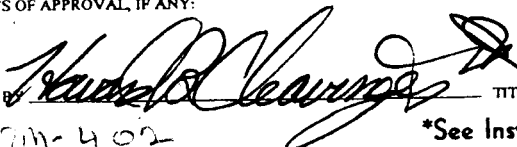
PERMIT NO.

NOTICE OF APPROVAL

APPROVAL DATE

CONDITION OF APPROVAL ATTACHED  
TO OPERATOR'S COPYApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY



TITLE

Assistant Field Manager  
Mineral Resources

DATE

SEP 12 1997

\*See Instructions On Reverse Side

**MEMORANDUM OF SURFACE USE AND  
RIGHT-OF-WAY AGREEMENT**

**THIS MEMORANDUM WITNESSES:**

THAT on the 16th day of June, 1997, between ELMER R MOON AND ARWELLA P MOON, husband and wife, whose address is East Old Highway 40, Duchesne, Utah 84021 (GRANTOR), in consideration of the covenants and agreements contained in that certain Surface Use and Right-Of-Way Agreement dated JUNE 25<sup>th</sup> 1997 (the "Agreement"), has granted and conveyed, and by these presents does hereby grant and convey to PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502 (GRANTEE), certain rights of surface use, rights-of-way, and easements for the exploration, development, production, and transportation of oil and gas in, on, over, through and across certain real property owned by GRANTOR and situated in the County of Duchesne, State of Utah, and more particularly described as follows:

**Township 4 South - Range 4 West USM**

Section 16: S/2 SW/4 less 5 acres SW/4 SW/4 SW/4

Section 18: W/2 SW/4

Section 21: W/2 NW/4, NE/4 NW/4

E 320857 B A0280 P 249  
DATE 1-JUL-1997 16:22PM FEE 24.00  
CAROLYN B. MADSEN, RECORDER  
FILED BY CRY  
FOR ED TROTTER  
DUCHESNE COUNTY CORPORATION

**Township 4 South - Range 3 West USM**

Section 28: S/2 SW/4, SW/4 SE/4

Section 29: S/2 SE/4

Section 31: E/2 SE/4

Section 33: W/2, W/2 NE/4, W/2 SE/4, NE/4 SE/4

**Township 5 South - Range 3 West USM**

Section 6: E/2 NE/4

Containing 1,152.64 acres, more or less.

Said rights and uses are granted upon and subject to all of the terms and conditions set forth in the Agreement, executed by GRANTOR and GRANTEE, which Agreement is held by and can be inspected by parties having a vested interest in the Agreement and/or subject property during reasonable business hours at the offices of GRANTOR or GRANTEE. Such uses, rights-of-way and easements are granted for the full period of development of and the production life of any of the wells, appurtenances and facilities associated therewith.

IN WITNESS WHEREOF, this Memorandum has been duly executed this 25<sup>th</sup> day of JUNE, 1997.

GRANTOR ELMER R MOON AND ARWELLA P MOON

By: Elmer R. Moon

By: Arwella P. Moon

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: Ed Gratter  
Its: Agent

ACKNOWLEDGMENTS

STATE OF UTAH )  
: ss.  
COUNTY OF DUCHESNE )

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of June, 1997 by ELMER R MOON AND ARWELLA P MOON, husband and wife.

Charlotte Jensen  
Notary Public  
Residing in: Duchesne, UT

Commission Expires:

5-2-98

ACKNOWLEDGMENT

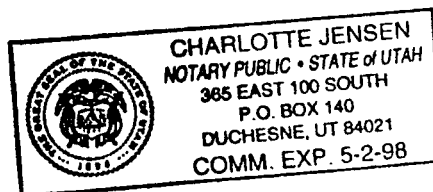
UTAH  
STATE OF ~~KANSAS~~ )  
: ss.  
COUNTY OF DUCHESNE )

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of June, 1997 by Ed Gratter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

Charlotte Jensen  
Notary Public  
Residing in: Duchesne, UT

My Commission Expires:

5-2-98



**SITE SPECIFIC  
ENVIRONMENTAL ASSESSMENT**

**1.0 PROPOSED ACTION**

Petroglyph Operating Co., Inc. is proposing to drill oil well #33-10-D3, and construct pipelines, and an access road on fee property having mineral rights owned by the Ute Indian Tribe. This environmental assessment is tier off from the Duchesne River Area Environmental Assessment No.3 prepared by Minerals Management Service dated April 1982.

**2.0 ALTERNATIVE ACTIONS**

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

**3.0 PERMITTEE/LOCATION**

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 7-28-97
- C. Well number- 33-10-D3
- D. Right-of-way- Access road & pipeline R\W approx. 1200 feet.
- E. Site location- NWSE, Section 33, T4S, R3W, USB&M.

**4.0 SITE SPECIFIC SURVEY**

**A. SITE DESCRIPTION**

- 1. Elevation (feet) 5823
- 2. Annual precipitation (inches)- 10-12
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") loam

**B. VEGETATION**

- 1. Habitat type is upland shrub.
- 2. Percent Ground Cover- estimated to be 30%.
- 3. Vegetation consists of approximately 35% grasses, 60% shrubs, 5% forbs. The main variety of grasses are squirrel tail, Indian ricegrass, poa, needle & thread, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, flox, daisy, Indian paint brush, & annuals. Shrubs consist of black sagebrush, fring sage, bud sage, prickly pear,



winterfat, shadscale, snakeweed, greasewood, rabbit brush, spiny horsebrush.

4. Observed Threatened & Endangered species: None.

5. Potential For Threatened & Endangered species: Slight

7. Observed Noxious Weeds: None

8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

#### 4.1 WILDLIFE

A. POTENTIAL SITE UTILIZATION

1. Big Game-The area is used throughout the year by mule deer, elk, and antelope. (elk & mule deer use this area most during winter months.)

2. Small Game-The area is used by cottontail rabbit.

3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 4.0 miles south of the site in Section 20, T5S, R3W, USB&M.

5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.

6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

#### 4.2 PRESENT SITE USE

A. USAGE

	<u>acres</u>
Rangeland	3.08
Irrigable land	0
Woodland	0
Non-Irrigable land	3.08
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	0
Other:	0

#### 4.3 CULTURAL RESOURCES

## A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist. No archaeological sites were found within the project area.

## 5.0 ENVIRONMENTAL IMPACTS

### A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	0.00
2. Well site	1.43
3. Pipeline right-of-way	0.00
4. Corridor right-of-way	1.65
5. Total area disturbed	3.08

### B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.20
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:  
Yes No X

### C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any point source of water pollution.

There are no wetlands or riparian areas which will be affected by this project.

The area is presently used as rangeland. This project will reduce livestock grazing by approximately 0.20 AUM/year. The land surface is in fee ownership. It is grazed by sheep and cattle. Dust from wellsite construction and travel along access roads may cause dust to settle on vegetation. The dust collecting on plant surfaces may adversely affect the grazing of the area adjacent to the access roads by livestock and wildlife.

Because of additional oilfield activity there will be an increase in traffic using the area. The increased traffic may disturb livestock or result in larger numbers of livestock injury or death from vehicle accidents.

The area is not used as irrigated cropland and a water right has not been designated for the area.

Reserve pits will be constructed on each wellsite. These pits contain bentonite clay, barite, cellulose, well cuttings, by-products from hydrocarbons, and other additives which have been approved by the Environmental

Protection Agency for drilling oil & gas wells. Within 90 days after the completion of the well the reserve pits are normally filled in and contoured to blend into the approximate elevation of the soil surface.

Small disposal pits may also be used after the well starts into production. These pits may be used to dispose of up to 5.0 barrels of produced water per day. Produced water contains high concentrations of salt, hydrocarbons, etc. Also trash and other foreign material may be disposed of in these pits.

Construction of the wellsite and access roads and pipelines often require deep cuts and fills, and often large amounts of rocks are exposed to the soil surface. When the wellsite is re-contoured and rehabilitated and revegetated, there will normally be a scar left on the soil surface which can may be visible to people using the area.

#### D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be a small reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

### 6.0 MITIGATION STIPULATIONS

Because the area is owned by a private individual the company will comply with the private land owners request on all mitigative measures.

### 7.0 UNAVOIDABLE ADVERSE IMPACTS

#### A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

#### B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated

environmental impacts will continue to influence the surrounding area for the productive life of the well.

2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

8.0 CUMULATIVE IMPACTS

A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

9.0 NEPA COMPLIANCE

A. RESEARCH/DOCUMENTATION

Based on available information, 8-20-97, the proposed location in the following areas of environmental impacts has been cleared:

<u>  X  </u>	Yes	<u>      </u>	No	Listed Threatened & Endangered species
<u>  X  </u>	Yes	<u>      </u>	No	Critical wildlife habitat
<u>  X  </u>	Yes	<u>      </u>	No	Historical and cultural resources
<u>  X  </u>	Yes	<u>      </u>	No	Floodplain
<u>  X  </u>	Yes	<u>      </u>	No	Wetlands

10.0 REMARKS

A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

## 11.0 RECOMMENDATIONS

### A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

8-21-97  
Date

Dale S. Hanberg  
Representative - BIA Land  
Operations, Uintah and Ouray  
Agency

## 12.0 DECLARATION

### A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

8/21/97  
Date

[Signature]  
Superintendent,  
Uintah and Ouray Agency

## 14.0 CONSULTATION

### A. REPRESENTATIVES/ORGANIZATION

Dale Hanberg- BIA  
Ed Trotter-Petroglyphs  
Lonnie Nephi-UTEM  
Greg Darlington-BLM

B:\EAPet310.MD3

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company

Well Name & Number: Ute Tribal 33-10-D3

API Number: 43-013-31935

Lease Number: 14-20-H62-4736

Location: NWSE Sec. 33 T. 4S R. 3W

**NOTIFICATION REQUIREMENTS**

- |                                 |   |   |
|---------------------------------|---|---|
| Location Construction           | - | at least forty-eight (48) hours prior to construction of location and access roads.   |
| Location Completion             | - | prior to moving on the drilling rig.  |
| Spud Notice                     | - | at least twenty-four (24) hours prior to spudding the well.   |
| Casing String and Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative by the operator to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report **ALL** water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

If conductor pipe is set it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at  $\pm 337$  ft. or by setting the surface casing at  $\pm 387$  ft.. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to **TOP OF CEMENT** if the surface casing is set at  $\pm 387$  ft. or it will be run to **SURFACE** if the surface casing is set at  $\pm 250$  ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.



6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

Wayne Bankert           (801) 789-4170  
Petroleum Engineer

Ed Forsman             (801) 789-7077  
Petroleum Engineer

Jerry Kenczka           (801) 789-1190  
Petroleum Engineer

BLM FAX Machine       (801) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

## SURFACE CONDITIONS OF APPROVAL

The Bureau of Indian Affairs Site Specific Environmental Analysis states that.

"The area is owned by a private individual. Petroglyph will comply with the private landowner's request on all mitigative measures."

(Elmer R. Moon and Arwella P. Moon)---Wellpad and part of the access

(Orven J. and Delphia N. Moon)---rest of the new access road

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal District Office  
170 South 500 East  
Vernal, Utah 84078-2799

Phone: (801) 781-4400  
Fax: (801) 781-4410

IN REPLY REFER TO:

3160  
UT08300

September 12, 1997

Ed Trotter  
Petroglyph Operating Co., Inc.  
P O Box 1910  
Vernal, Utah 84078

Re: Well No. Ute Tribal 33-10-D3  
NWSE, Sec. 33, T4S, R3W  
Lease No. 14-20-H62-4736  
Duchesne County, Utah

Dear Mr. Trotter:

Enclosed are two approved copies of the Application for Permit to Drill (APD) with attached Conditions of Approval for the above referenced well.

If you have any questions concerning APD processing, please contact me at (435) 781-4503.

Sincerely,

*Margie Herrmann*  
*for* Pat Sutton  
Legal Instruments Examiner

Enclosures

bcc: well file  
reading file

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

**CONFIDENTIAL**

Name of Company: PETROGLYPH OPERATING

Well Name: UTE TRIBAL 33-10D3

Api No. 43-013-31935

Section: 33 Township: 4S Range: 3W County: DUCHESNE

Drilling Contractor: UNION

Rig # 16

SPUDDED:

Date: 10/30/97

Time: \_\_\_\_\_

How: ROTARY

Drilling will commence: \_\_\_\_\_

Reported by: CHUCK WHITE

Telephone NO.: \_\_\_\_\_

Date: 10/29/97 Signed: JLT

✓

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING INSPECTION FORM

OPERATOR: PETROGLYPH OPERATING CO COMPANY REP: CHUCK WHITE

WELL NAME UTE TRIBAL #33-10D3W API NO 43-013- 3/935

QTR/QTR: SW/SE SECTION: 33 TWP: 4S RANGE: 3W

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #16

INSPECTOR: DENNIS L INGRAM TIME: 11:25 pm. DATE: 11/5/97

SPUD DATE: DRY: 10/30/97 ROTARY: 10/30/97 PROJECTED T.D.: 6530'

OPERATIONS AT TIME OF VISIT: DRILLING AHEAD AT 6071' WITH KCL  
WATER.

WELL SIGN: N MUD WEIGHT 8.3+ LBS/GAL BOPE: Y

BLOOIE LINE: Y FLARE PIT: N H2S POTENTIAL: N

ENVIRONMENTAL:

RESERVE PIT: Y FENCED: Y LINED: Y PLASTIC: Y

RUBBER:        BENTONITE:        SANITATION: (2)

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: YES, 1600 PSI ON  
MANIFOLD; 2100 PSI ON ACCUMULATOR.

REMARKS:

(LAST HOLE WAS UT #15-05). OPERATOR SHOULD REACH TOTAL DEPTH  
BY MIDNIGHT TONIGHT IF BIT DOESN'T GIVE UP. PRESENTLY, THEY  
HAVE BIT #4 ON BOTTOM, A 7 7/8" SECURITY E4-33 WITH 3-18 JET  
NOZZLES. PENTETRATION RATE IS 49 FPH WITH 672 UNITS BACKGROUND  
GAS. SURVEYS SHOW 12 1/4 DEGREES @ 5650'; 1 3/4 DEGREES @ 4680';  
1 DEGREES @ 2496'; AND 3/4 DEGREES @ 1490'.



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING INSPECTION FORM

OPERATOR: PETROGLYPH OPERATING CO COMPANY REP: CHUCK WHITE

WELL NAME UTE TRIBAL #33-10D3W API NO 43-013-31935

QTR/QTR: SW/SE SECTION: 33 TWP: 4S RANGE: 3W

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #16

INSPECTOR: DENNIS L INGRAM TIME: 11:25 pm. DATE: 11/5/97

SPUD DATE: DRY: 10/30/97 ROTARY: 10/30/97 PROJECTED T.D.: 6530'

OPERATIONS AT TIME OF VISIT: DRILLING AHEAD AT 6071' WITH KCL

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WELL SIGN: N MUD WEIGHT 8.3+ LBS/GAL BOPE: Y

BLOOIE LINE: Y FLARE PIT: N H2S POTENTIAL: N

ENVIRONMENTAL:

RESERVE PIT: Y FENCED: Y LINED: Y PLASTIC: Y

RUBBER:            BENTONITE:            SANITATION: (2)

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: YES,  
\_1600 PSI ON MANIFOLD; 2100 PSI ON ACCUMULATOR.

REMARKS:

(LAST HOLE WAS UT #15-05). OPERATOR SHOULD REACH TOTAL DEPTH  
BY MIDNIGHT TONIGHT IF BIT DOESN'T GIVE UP. PRESENTLY, THEY  
HAVE BIT #4 ON BOTTOM, A 7 7/8" SECURITY E4-33 WITH 3-18 JET  
NOZZLES. PENTETRATION RATE IS 49 FPH WITH 672 UNITS BACKGROUND  
GAS. SURVEYS SHOW 12 1/4 DEGREES @ 5650'; 1 3/4 DEGREES @ 4680';  
1 DEGREES @ 2496'; AND 3/4 DEGREES @ 1490'.

FORM 7

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: UTE Tribal 33-10D3  
API number: 43-013-31935
2. Well Location: QQ NWSE Section 33 Township 4S Range 3W County Duchesne
3. Well operator: Petroglyph Operating Company, Inc.  
Address: P.O. Box 607  
Roosevelt, UT 84066 Phone: (801) 722-2531
4. Drilling contractor: Union Drilling Inc  
Address: P.O. Drawer 40  
Buckhannon, WV 26201 Phone: (304) 472-4610
5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	475		Dust
475	1125	Dry	
1125	1306	Hole Camp <sup>NO CNE</sup> <del>NO SAMPLE</del>	NO sample
1306		1/2 gal 5 min	oil @ 2760
1306	3065	+ 1" x 7"	

6. Formation tops: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 11-15-97

Name & Signature: Lisha Bell

Title: Operations Coordinator

OPERATOR Petroglyph Operating Co., Inc.  
ADDRESS P.O. Box 607  
Roosevelt, UT 84066

OPERATOR ACCT. NO. N 3800

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QO	SC	TP	RG			
A	99999	12270	43-013-31934	Uto Tribal 33-09 D3	NESE	33	45	3W	Duchesne	10/22/97	
WELL 1 COMMENTS: Battery will be at Uto Tribal 34-12 D3 - when drilled. All wells on this sheet will go to this battery											
A	99999	12270	43-013-31935	Uto Tribal 33-10 D3	NWSE	33	45	3W	Duchesne	10/31/97	
WELL 2 COMMENTS:											
A	99999	12270	43-013-31957	Uto Tribal 33-11 D3	NESW	33	45	3W	Duchesne	11/8/97	
WELL 3 COMMENTS: Entities added 12-4-97. fee (Common Tank)											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Deanne Bell  
Signature  
Operations Coordinator  
Title  
12/1/97  
Date  
Phone No. 435 722-2531

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Petroglyph Operating Company, Inc.**

3. Address and Telephone No.  
**P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500**

4. Location of Well (Footage, Sec., T., R., or Survey Description)  
**1979' FSL and 1980' FEL  
NW SE Sec. 33 T4S R 3W**

**CONFIDENTIAL**

5. Lease Designation and Serial No.  
**14-20-H62-3511**

6. If Indian, Allottee or Tribe Name  
**Ute Indian Tribe**

7. If Unit or CA, Agreement Designation  
**14-20-H62-4650**

8. Well Name and No.  
**Ute Tribal 33-10 D3**

9. API Well No.  
**43-013-31935**

10. Field and Pool, or Exploratory Area  
**Antelope Creek**

11. County or Parish, State  
**Duchesne County, UT**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☒ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal Well # 33-10D3 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

**CONFIDENTIAL**

14. I hereby certify that the foregoing is true and correct

Signed Kathy Surmer Title Petroleum Engineering Tech

Date 12-24-97

(This space for Federal or State official use)

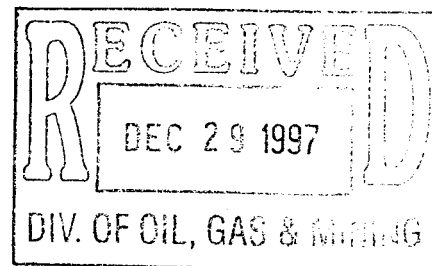
Approved by \_\_\_\_\_ Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

\*See Instruction on Reverse Side



December 24, 1997

Mr. Jim Thompson  
State of Utah - Division of Oil, Gas & Mining  
1594 West North Temple, Ste. 1210  
Box 145801  
Salt Lake City, UT 84114-5801

RE: EPA AREA PERMIT NO. 2736-00000

Dear Mr. Thompson:

Enclosed are copies of Sundry Notices being filed with the Bureau of Land Management requesting permission to convert from producing to injection on the following wells:

Ute Tribal #07-09	Ute Tribal #28-05A
Ute Tribal #07-16	Ute Tribal #29-06
Ute Tribal #16-02	Ute Tribal #30-11
Ute Tribal #16-08	Ute Tribal #33-08D3
Ute Tribal #18-12	Ute Tribal #33-10D3
Ute Tribal #16-16	Ute Tribal #33-14D3
Ute Tribal #21-03	Ute Tribal #33-16D3

If you need further information, please do not hesitate to call me. Thank you for your attention to this matter.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Turner".

Kathy Turner  
Petroleum Engineering Technician

/kt  
Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE  
(See other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
(Expires August 31, 1985)

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-H62-4736

6. IF INDIAN, ALOTTEE OR TRIBE NAME  
Ute Indian Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.  
Ute Tribal 33-10D3

10. FIELD AND POOL, OR WILDCAT  
Antelope Creek

11. SEC., T., R., M., OR BLOCK AND  
SURVEY OR AREA  
Sec. 33 -T4S-R3W

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1.a. TYPE OF WELL: Oil Well ☒ Gas Well ☐ Dry ☐ Other ☐

b. TYPE OF COMPLETION:  
New Well ☒ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Reserv. ☐ Other ☐

2. NAME OF OPERATOR  
PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS OF OPERATOR  
P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1979 FSL 1980 FEL

1-9-99

At top prod. interval reported below

At total depth 6530' RTD

CONFIDENTIAL

14. PERMIT NO.  
43-013-31935

DATE ISSUED  
9/15/97

12. County or Parish  
Duchesne

13. State  
Utah

15. DATE SPUDDED 10/30/97

16. DATE T.D. REACHED 11/5/97

17. DATE COMPLETED (Ready to prod.)  
12/9/97

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
5832'

19. ELEV. CASINGHEAD  
5822'

20. TOTAL DEPTH, MD & TVD  
6530' RTD

21. PLUG BACK T.D., MD & TVD  
6465' PBTD

22. IF MULTIPLE COMPL., HOW MANY\*  
1

23. INTERVALS  
DRILLED BY

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)\*  
Green River: H1, H2

25. WAS DIRECTIONAL SURVEY MADE  
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN  
CNL, AIT

27. WAS WELL CORED  
NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	459'	12 1/4"	250 sxs Class G w/ 2% CaCl2 & .25#/sk cellophane flake	
5-1/2"	15.5#	6510'	7-7/8"	200 sxs Highfill	
				& 350 sxs Thixotropic	

LINER RECORD				TUBING RECORD			
SIZE	TOP	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	6308'	

31. PERFORATION RECORD (Interval, size and number)  
CONFIDENTIAL

H2 6400-03' (12 holes)

H1 6372-78' (24 holes)

CONFIDENTIAL

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
6400-03' & 6372-78'	9400 gal Boragel, 50900# 20/40 prop	

PRODUCTION						WELL STATUS (Producing or shut-in)	
DATE FIRST PRODUCTION 12/16/97		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 2-1/2" x 1-3/4" x 16' 40 ring RHAC pump				producing	
DATE OF TEST 12/17/97	HOURS TESTED 24	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL. 50	GAS - MCF. 0	WATER - BBL. 78	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE 200	CALCULATED 24 HR. RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
SOLD, USED FOR FUEL

TEST WITNESSED BY  
Dave Schreiner

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Signed

*D. G. Ball*

Title Operations Coordinator

Date 12/19/97

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ute Tribal 33-10D3						
B Marker	4138					
X Marker	4640					
Douglas Creek	4787					
B Limestone	5184					
Castle Peak	5764					
Basal Carbonate	6148					
		CONFIDENTIAL				

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

5. Lease Designation and Serial No.  
**14-20-H62-3511**

6. If Indian, Allottee or Tribe Name  
**Ute Indian Tribe**

7. If Unit or CA, Agreement Designation  
**14-20-H62-4650**

8. Well Name and No.  
**Ute Tribal 33-10 D3**

9. API Well No.  
**43-013-31935**

10. Field and Pool, or Exploratory Area  
**Antelope Creek**

11. County or Parish, State  
**Duchesne County, UT**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Petroglyph Operating Company, Inc.**

3. Address and Telephone No.  
**P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500**

4. Location of Well (Footage, Sec., T., R., or Survey Description)  
**1979' FSL AND 1980' FEL  
NW SE Sec.33 T4S R 3W**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Commence inj**
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Petroglyph Operating Company, Inc. has requested approval to inject fluids in the Ute Tribal #33-10 D3 under EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

Approval to inject fluids was granted by the EPA on 5/7/98; however, there are no plans at this time to commence injection.

*UIC-000.26  
added 2-3-03  
JC*

14. I hereby certify that the foregoing is true and correct

Signed Kathy Turner Title Petroleum Engineering Tech

Date 5/28/98

(This space for Federal or State official use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

\*See Instruction on Reverse Side



December 22, 1997

Mr. Chuck Williams  
U.S. Environmental Protection Agency  
UIC Implementation Section, 8 P2-W-GW  
999 18th Street, Suite 500  
Denver, CO 80202-2466

RE: EPA AREA PERMIT NO. UT2736-00000  
Minor Modification to Area Permit (Adding New Well to Area Permit)  
Ute Tribal #33-10D3, NW SE Sec. 33-T4S-R3W, Duchesne County, UT

Dear Mr. Williams:

Pursuant to the regulations pertaining to the above-referenced area permit (Section II.A.2), enclosed is the necessary documentation to comply with the conversion notification requirements regarding the addition of new wells to the area permit. Included are well schematic construction details for the enhanced recovery injection well referenced above. The permittee shall not begin implementation of the plan until after receiving written authorization from the Director.

List of attachments for Ute Tribal #33-10D3:

- Current wellbore construction schematic and well history
- Conversion procedure
- Proposed wellbore conversion schematic
- Plugging and Abandonment procedure and schematic

Please be advised that evidence of financial responsibility will be sent under separate cover to the office of EPA-UIC.

Please note that this request for approval to convert the above-referenced well shows you additional zones that are not currently open, but are included in the After Conversion and Plug & Abandonment diagrams.

Pursuant to our phone conversation on Monday, December 22<sup>nd</sup>, it is our understanding that you will grant us EPA approval to convert the above well limited to those zones which are currently open. POCI will also complete additional zones in this well not currently open. When we send to you the request for approval to inject, we will also send you a request to modify the original approval to convert to include the new zones. We will send to you updated downhole diagrams showing all perforations and ISIP data on all stimulation treatments performed on all zones in the well at that time.

If additional information is needed, please do not hesitate to contact me at (316) 665-8500. Thank you for your attention to this matter.

Sincerely,

*Kathy Turner*

Kathy Turner  
Petroleum Engineering Technician

KT/bk

Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires March 31, 1993

5. Lease Designation and Serial No.

**14-20-H62-3511**

6. If Indian, Allottee or Tribe Name

**Ute Indian Tribe**

7. If Unit or CA, Agreement Designation

**14-20-H62-4650**

8. Well Name and No.

**Ute Tribal 33-10 D3**

9. API Well No.

**43-013-31935**

10. Field and Pool, or Exploratory Area

**Antelope Creek**

11. County or Parish, State

**Duchesne County, UT**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Petroglyph Operating Company, Inc.**

3. Address and Telephone No.

**P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500**

4. Location of Well (Footage, Sec., T., R., or Survey Description)

**1979' FSL AND 1980' FEL**

**NW SE Sec.33 T4S R 3W**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other *Commence Inj.*

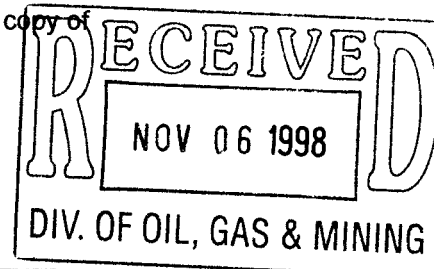
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Petroglyph Operating Company, Inc. has requested approval to inject fluids in the Ute Tribal #33-10 D3 under EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

Further to BLM & EPA approval (Permit #UT2736-04421), enclosed is a copy of the Workover Report. Approval to inject fluids was granted by the EPA on August 28, 1998. Injection commenced on October 2, 1998.



14. I hereby certify that the foregoing is true and correct

Signed

*[Signature]*

Title **Administrative Assistant**

Date

**11-4-98**

(This space for Federal or State official use)

Approved by

Title

Date

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

\*See Instruction on Reverse Side

*WTC  
1-4-99  
[Signature]*

# WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

Type: convert to injector

Operator: Petroglyph Operating Company, Inc. Elevation: 0  
Lease: Ute Tribal 33-10 D3 0  
API #: 43-013-31935 Property: 12410  
Location: 33 - 4 S - 3 W AFE/EPE Number:  
County, St.: Duchesne UT

## Activity Date

## Activity Description

7/23/98

7 AM Road rig to location. MIRU. RD surface production equipment. Vent gas, pull pump off seat. Flush rods w/ hot treated wtr. Single dn 98 7/8" rods. Flush w/ hot wtr. Single dn 75 3/4" rods. Flush, finish single dn 3/4" rods & LD pump. ND remaining flow & control equip. X/over to tbq equipment. Release 5-1/2" TAC. Strip on frac & BOP. POOH w/ tbq & LD bttm hole production equipment. MU Halliburton 5-1/2" BVBP & RIH to 2500'. 7 PM SWIFN.

7/24/98

### PERFORATIONS:

6400-6403	Green River H (02)	4 SPF	12 shots
6372-6378	Green River H (01)	4 SPF	24 shots
5604-5611	Green River D (07)	4 SPF	28 shots

SIP tbq 0, csg 0.

7 AM w/ EOT @ 2500' finish RIH w/ 5-1/2" BVBP to 6203'. Set BVBP & get off plug. Load well bore w/ 65 bbls. Warm KCl wtr & circ to displace oil. Press up to test BVBP to 4500 psi. Lost 200 psi in 1 min. RIH & catch plug & move up to 6170' & re-set. Press. Test to 4500 psi w/ 0 loss. Pull EOT to 5622'. Spot 6 bbls 15% HCl across D07 perf area. POOH w/ tbq & ret. tool. MIRU Schlumberger WLS. W/ 4" gun @ 4 spf, perf D07 zone @ 5604-11' (28holes). RDMO WLS. Load csg & break from @ 1800 psi initial psi. Pump acid away w/ 20 bbls KCl press build to 2200 psi @ 4 BPM. 2:30 PM SWIFN.

WTC  
11-4-98

# WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

---

<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> 0
<b>Well:</b> Ute Tribal 33-10 D3	0
<b>County, St.:</b> Duchesne UT	

---

## Activity Date

## Activity Description

7/27/98

### PERFORATIONS:

6400-6403	Green River H (02)	4 SPF	12 shots
6372-6378	Green River H (01)	4 SPF	24 shots
5604-5611	Green River D (07)	4 SPF	28 shots
5538-5550	Green River D (07.2)	4 SPF	48 shots

RU Halliburton & frac D07 zone 3A schedule @ 20 BPM, avg. rate 23.5 & max rate 24.4. Average press. 2700, maximum press. 3225. Pump 50,800 lbs. 20/40 sand. RU wireline. Lube in hole w/ 5-1/2" RBP & set @ 5590'. Test plug to 3000 psi. RIH w/ 12' perf gun & shot D07.2 @ 5538-50, 48 holes. RU to frac. Press up to 4500 psi, shutdn & flow back @ 2 BPM. Recover 106 bbls. TIH to TOS @ 5550'. Clean sand out to 5580'. Spot 6 bbls 15% acid & bkdn. Didn't see any break pump into form @ 4 BPM, 1700 psi. POOH w/ tbg & RU Halliburton to frac D07.2 w/ schedule 2A frac. Flow frac back @ 1 BPM for 3 hrs. Recover 165 bbls frac fluid. SWIFN.

STIMULATION D7.2  
TREATMENT

Fluid Task: pad, slurry, flush  
Volume (gal): 2000, 6700, 6255  
Proppant: 20/40  
Total lbs: 50,800  
Ramp Range: 1-10 ppg

### TREATING PRESSURE:

ISIP: 2972  
5 min: 2724  
Displ. Volume: 6255  
Frac gradient: .96

### TREATMENT FLOWBACK

Choke/hrs: 24  
Flow rate: 2 BPM

### FLUID RECOVERY

Well BLF: 661  
Well BLFR: 285  
Well % rec: 43%

STIMULATION D3.2  
TREATMENT

Fluid Task: acid, pad, slurry, flush  
Volume (gal): 250, 2000, 4000, 5197  
Fluid type: acid 15%, delta 25, wtr  
Proppant: 20/40  
Total lbs: 28,000  
Ramp range: 1-10 ppg

### TREATING PRESSURE

Maximum: 2910 psi @ 24.5 BPM  
Average: 2400 psi @ 22 BPM

### SHUT-IN PRESSURE

## WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

---

<b>Operator:</b>	Petroglyph Operating Company, Inc.	<b>Elevation:</b>	0
<b>Well:</b>	Ute Tribal 33-10 D3		0
<b>County, St.:</b>	Duchesne UT		

---

### Activity Date

### Activity Description

ISIP: 1980  
5 min: 1793  
Fluid type: delta 25, delta 25, WF 10  
SHUT-IN PRESSURE  
Average: 23.5 psi @ 2700 BPM  
Maximum: 24.4 psi @ 3225 BPM  
Displ. Volume: 5197  
Frac gradient: .80  
STIMULATION TREATMENT C06.1  
Volume (gal): 250, 1500, 3887, 4925  
Fluid type: acid 15%, delta 25, wtr  
Fluid task: acid, pad, slurry, flush  
Total lbs: 28,000  
Ramp Range: 1-10 ppg  
Proppant: 20/40  
TREATING PRESSURE  
Maximum: 2400 psi @ 20.2 BPM  
Average: 4400 psi @ 20.7 BPM  
SHUT-IN PRESSURE  
ISIP: 1772  
5 min: 1543  
Displ volume: 4925 gal  
Frac gradient: .79  
STIMULATION TREATMENT  
Fluid task: pad, slurry, flush  
Volume (gal): 1500, 5600, 5422  
Fluid type: delta frac 25, delta frac 25, WF 110  
Proppant: 20/40  
Total lbs: 41,700  
Ramp range: 1-10 ppg  
TREATING PRESSURE  
Maximum: 3500 psi @ 27.3 BPM  
Average: 2850 psi @ 23.5 BPM  
SHUT-IN PRESSURE  
ISIP: 3204  
5 min: 2226  
Displ. Volume: 5442 gal  
Fract. Gradient: .93

## WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

---

<b>Operator:</b>	Petroglyph Operating Company, Inc.	<b>Elevation:</b>	0
<b>Well:</b>	Ute Tribal 33-10 D3		0
<b>County, St.:</b>	Duchesne UT		

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Activity Date	Activity Description
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7/28/98

PERFORATIONS:

6400-6403	Green River H (02)	4 SPF	12 shots
6372-6378	Green River H (01)	4 SPF	24 shots
5604-5611	Green River D (07)	4 SPF	28 shots
5538-5550	Green River D (07.2)	4 SPF	48 shots
5330-5334	Green River D (03.4)	4 SPF	16 shots
5307-5310	Green River D (03.4)	4 SPF	12 shots

csg 800 psi

flow well back to 0 psi. MU retrieving head. TIH to TOS @ 5538'. RU pump circ sand out to RBP @ 5590'. LR RBP POOH w/ tbg. LD RBP MU. BVBP retrieving head & TIH to TOS @ 6050'. RU pump & clean sand out to BVBP. LR plug POOH to 5435'. Set & test BVBP to 3500 psi. POOH 5343' & spot 250 gal 15% HCl on D3.4 5330-34', 5307-10'. POOH w/ tbg. MIRU wireline truck to perf D3.4 5330-34, 5307-10, 4 shots/ft. Bkdn @ 2500 psi. Pump into fm @ 4 BPM, 1500 psi, ISIP 1000. RD wireline & SWIFN.

FLUID RECOVERY

Well BLF:	661
Well BLFR:	285
Well BLFTR:	376
Well % Rec:	43%

# WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

Operator:	Petroglyph Operating Company, Inc.	Elevation:	0
Well:	Ute Tribal 33-10 D3		0
County, St.:	Duchesne UT		

## Activity Date Activity Description

7/29/98

### PERFORATIONS:

6400-6403	Green River H (02)	4 SPF	12 shots
6372-6378	Green River H (01)	4 SPF	24 shots
5604-5611	Green River D (07)	4 SPF	28 shots
5538-5550	Green River D (07.2)	4 SPF	48 shots
5330-5334	Green River D (03.4)	4 SPF	16 shots
5307-5310	Green River D (03.4)	4 SPF	12 shots
5258-5262	Green River D (03.2)	4 SPF	16 shots
4986-4990	Green River C (06.1)	4 SPF	16 shots

RU Halliburton & frac D3.4, 5330-34, 5307-11 w/ 2A frac pump pad, 1800 gal slurry in 1-10 ppg 5431 gal & flush w/ 5261 gal. ISIP 1800 psi & 5 min 1666. Avg. pressure 1850 & avg. rate 26 BPM. Max. pressure 2220 & max rate 29 BPM. RU wireline. RIH w/ RBP & gun. Set RBP @ 5290' & test to 3000psi. PU to 5258-62 & shot D3.2 w/ 6' gun, 4 shots/ft. POOH try to break @ 3000 psi. RIH w/ bailer dump acid on D3.2. POOH & break @ 2700 dn to 2000 @ 4 BPM. RU & frac D3.2 schedule 1A pump 250 gal acid 2000 gal pad, 4000 gal slurry in 1-10 ppg & 5197 gal flush. ISIP 1980 psi, 5 min 1793 psi. Avg. rate 22 BPM & avg. pressure 2400 psi. Max rate 24.5 BPM & max pressure 2910 psi. RU wireline. RIH w/ RBP & 4' gun set RBP @ 5150 & test 3000 psi. POOH to 5258-62 & perf C6.1. POOH try to break @ 3000 psi, no break. RIH w/ bailer & acid. Bkdn @ 2700' back to 2500, 4 BPM. RU & frac C6.1 w/ 1A schedule frac. Pump 250 gal acid, 3887 gal slurry, & 4925 gal flush. ISIP 1772 psi, 5 min 1543 psi. Avg. rate 20.2 BPM & avg. pressure 240 psi. Max rate 20.7 BPM & max pressure 4400 psi. 20/40 sand 28,000 lbs.

RU wireline & RIH w/ RBP & set @ 4900'. POOH & test to 3000 psi. PU 9' gun. RIH & tag TOS @ 4808'. POOH & TIH w/ tbg to clean out sand. TOS @ 4804'. Clean out to RBP. POOH to 4837' & spot 250 gal acid & POOH w/ tbg. SWIFN. Flowed +/- 40 bbls & displaced +/- 20 bbls. Total of 60 bbls.

### STIMULATION TREATMENT

Fluid task:	pad, slurry, flush
Volume (gal):	1800, 5431, 5261
Fluid type:	delta 25, delta 25, wtr
Proppant:	20/40
Total lbs:	41,700
Ramp range:	1-10 ppg

### TREATING PRESSURE

Maximum:	2220 psi @ 29 BPM
Average:	1850 psi @ 26 BPM

### SHUT-IN

ISIP:	1870
5 min:	1666

### FLUID RECOVERY

Zone BLF:	821
Zone BLFR:	60
Zone BLFTR:	761
Well BLF:	1482
Well BLFR:	345
Well BLFTR:	1137

## WORKOVER REPORT

11/4/98

*Petroglyph Operating Co., Inc.*

---

<b>Operator:</b>	Petroglyph Operating Company, Inc.	<b>Elevation:</b>	0
<b>Well:</b>	Ute Tribal 33-10 D3		0
<b>County, St.:</b>	Duchesne UT		

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Activity Date	Activity Description
---------------	----------------------

Well % rec:	23%
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Frac gradient:	.79
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# WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> 0
<b>Well:</b> Ute Tribal 33-10 D3	0
<b>County, St.:</b> Duchesne UT	

## Activity Date Activity Description

7/30/98

### PERFORATIONS:

6400-6403	Green River H (02)	4 SPF	12 shots
6372-6378	Green River H (01)	4 SPF	24 shots
5604-5611	Green River D (07)	4 SPF	28 shots
5538-5550	Green River D (07.2)	4 SPF	48 shots
5330-5334	Green River D (03.4)	4 SPF	16 shots
5307-5310	Green River D (03.4)	4 SPF	12 shots
5258-5262	Green River D (03.2)	4 SPF	16 shots
4986-4990	Green River C (06.1)	4 SPF	16 shots
4814-4823	Green River C (04)	4 SPF	36 shots
4474-4478	Green River B (08)	4 SPF	16 shots

RU wireline RIH w/ 9' perf gun & shot C04 @ 4814-23, 4 spf. RU Halliburton & frac C04. Pump 1500 gal pad & 4133 gal slurry in 1-10 ppg stages. Flush w/ 4674 gal. RD Halliburton & RU wireline. RIH w/ RBP & 4' perf gun set RBP @ 4500. PU & test RBP 3000 psi. Shot B08 @ 4474-78 w/ 4 spf. POOH w/ wireline try to break 3500 psi. RIH w/ bailer & acid spot on perms. Bkdn @ 2900 psi. RU Halliburton & frac B08 w/ 1A schedule frac. RU choke & flow back @ 1 BPM after 5 min ISIP. Recover 48 bbls wtr., 0 psi. MU retrieving head & TIH TOS @ 4480'. Clean out to RBP. Circ clean LR, RBP & POOH. LD plug & TIH to 4300'. SWIFN.

### STIMULATION C04 4814-23 TREATMENT

Fluid task: acid, pad, slurry, flush  
Volume (gal): 250, 1500, 4133, 4674  
Fluid type: 15%, delta 25, wtr  
Proppant: 20-40  
Total lbs: 28,000  
Ramp range: 1-10 ppg

### TREATING PRESSURE

Maximum: 2510 psi @ 22.5 BPM  
Average: 1800 psi @ 21 BPM

### SHUT-IN PRESSURE

ISIP: 2100  
5 min: 1900  
Displ. Volume: 4674  
Fract. Gradient: .86

### FLUID RECOVERY

Zone BLF: 496  
Zone BLFR: 68  
Well BLF: 1978  
Well BLFR: 413  
Well BLFTR: 1565  
TP to CP: 2706-0 psi  
Fluid task: acid, pad, slurry, flush

## WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

---

<b>Operator:</b>	Petroglyph Operating Company, Inc.	<b>Elevation:</b>	0
<b>Well:</b>	Ute Tribal 33-10 D3		0
<b>County, St.:</b>	Duchesne UT		

---

### Activity Date

### Activity Description

5 min: 2706  
ISIP: 2800  
Rec. bbls: 48  
Volume (gal): 250, 2000, 4647, 4397  
Flow Rate: 60 BPH  
Displ. Volume: 4397  
Choke/hrs: 45 min  
TREATMENT FLOW BACK  
Average: 1800 psi @ 21 BPM  
Maximum: 2510 psi @ 22.5 BPM  
TREATING PRESSURE  
Ramp range: 1-10 ppg  
Total lbs: 28,600  
Fluid type: 15%, delta 25, delta 25, wtr  
STIMULATION 808 4474-78  
TREATMENT  
Well % Rec: 21%  
Proppant: 20/40  
Fract. Gradient: 1.06  
SHUT-IN PRESSURE

7/31/98

TIH to TOS @ 4820'. Circ sand out to RBP @ 4900'. L & R plug POOH w/ tbg. LD plug & TIH to TOS @ 4938'. Circ dn to RBP @ 5150'. Circ clean L & R plug. POOH w/ tbg. LD plug & TIH to 5215' TOS. RU pump circ sand out to RBP @ 5290'. L & R plug POOH LD plug ret. Head MU BVBP ret. head & TIH to TOS @ 5335'. Clean out to BVBP LR & move dn hole below new perms set @ 6170' & POOH 4444' & RU to swab. SWIFN.

### FLUID RECOVERY

Well BLF: 7987  
Well BLFR: 415  
Well BLFTR: 1565  
Well % rec: 21%

# WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

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<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> 0
<b>Well:</b> Ute Tribal 33-10 D3	0
<b>County, St.:</b> Duchesne UT	

---

Activity Date	Activity Description
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8/3/98

7 AM w/ BVBP @ 6170' & all other plugs removed & w/ EOT @ 4444', open tbg & flow well. Monitor w/ following result:

7 AM	open tbg.	375 psi				OIL-WTR
7:30 AM	tbg flowing	120 psi	recovered	11.50 bbls	71% oil =	8 - 8-1/2
8 AM	tbg flowing	75 psi	recovered	11.25 bbls	51% oil =	5-3/4 - 5-1/2
8:30 AM	tbg flowing	0 psi	recovered	10.00 bbls	40% oil =	4 - 6

RU swab equipment & swab to determine oil cut direction. Make 12 runs in 3 hrs 40 min. Had to wait 10 to 15 min between runs 1 thru 6 for well to quit flowing to cont. swab. Fluid level first run @ surface & oil cut 36%. Total recovery flowing & swabbing oil 67-3/4 bbls, wtr 143-1/2 bbls. RD swab pump 10 bbls dn tbg to control. RIH & find TOS @ 6165'. Load well bore & displace out remaining oil & gas. Clean out 5' sand to BVBP @ 6170'. Circ clean. Retrieve BVBP & POOH. MU 4-3/4" bit & 5-1/2" csg scrapper & start RIH to 2400'. 5:30 PM SWIFN.

FLUID RECOVERY

Well BLF:	1987
Well BLFR:	556
Well BLFTR:	1431
Well % rec:	27%

8/4/98

SIP tbg 150 psi, csg 200 psi.

7 AM cont. RIH w/ 4-3/4" bit & 5-1/2" csg scrapper. Find TOS @ 6454' est. reverse circ & clean out 12' to PBTD @ 6466'. Recovered sand & silt. Circ hot wtr & recover +/- 20 bbls oil. Single dn 210 jts 2-7/8" tbg. LD bit & scrapper. X/over to 2-3/8" equip. Count & tally 2-3/8" tbg. MU 5-1/2" hydro l pkr w/ tbg. Sub & "F" nipple from arrow comp systems. Single in on 77 jts 2-3/8" tbg. 5:30 PM SWIFN.

FLUID RECOVERY

Well BLF:	1987
Well BLFR:	556
Well BLFTR:	1431
Well % rec:	27%

# WORKOVER REPORT

11/4/98

Petroglyph Operating Co., Inc.

<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> 0
<b>Well:</b> Ute Tribal 33-10 D3	0
<b>County, St.:</b> Duchesne UT	

Activity Date	Activity Description
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8/5/98

## FINAL REPORT

7 AM cont. single in 2-3/8" tbg break, clean & apply Teflon based thread compound on each connection. Mix & pump 80 bbls KCl wtr treated w/ 1 bbl Cortron pkr/scale inhibitor. Displace tbg w/ 17 bbls KCl wtr. Drop stnd. Valve & let fall while stripping off BOP & frac equipment. Strip on csg flange. Fill tbg w/ 1/8 bbl & press up against stnd. Valve 1500 psi to set Hydro i pkr. Increase psi to 2500# & hold for 15 min, 0 loss. Install tbg flange & NU. Fill annular w/ 1/2 bbl & press test to 1000 psi w/ 0 loss. Bleed off psi. RU stnd valve ret. Tool & retrieve stnd valve. Press up 1000 psi on annular & shut-in. NU to tbg & pump 120 bbls KCl treated w/ 1 gal HLH breaker. Pump 4 BPM @ 500 psi to start finish @ 4 BPM @ 1800 psi. ISIP 800 psi. Shut in tbg. RD rig & equipment. Clean sand from rig tank. Clean location. 5:30 PM SDFN.

## TUBING DETAIL

KB	10.00	10.00
2-3/8"	.30	10.30
140 jts 2-3/8" tbg	4355.14	4365.44
2-3/8" x 2-7/8" swage w/ collar	.75	4366.19
packer top of cent. Element	3.10	4369.29
less for comp.	-1.40	4367.89
pkc elements to end	4.72	4372.61
2-3/8" tbg sub	4.10	4376.71
1.90 ID "F" nipple	.86	4377.57
EOT		4377.57

## FLUID RECOVERY

Well BLF:	2107
Well BLFR:	556
Well BLFTR:	1551
Well % rec:	26%

Days Since Start: 14



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

Ref: 8ENF-UFO

SEP 29 2008

CERTIFIED MAIL 7005-0390-0000-4848-5658  
RETURN RECEIPT REQUESTED

Patti Cox, District Office Manager  
Petroglyph Energy Company  
P.O. Box 607  
Roosevelt, Utah 84066

Accepted by the  
Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

Re: Underground Injection Control (UIC)  
Permission To Resume Injection  
Ute Tribal #33-10D3 Well  
EPA Permit #UT20736-04421  
Antelope Creek Oil Field  
Duchesne County, Utah

Dear Ms. Cox:

43 013 31935  
4S 3W 33

On July 23, 2008, EPA received information from Petroglyph Energy Company on the above referenced well concerning the workover to address a tubing leak and the followup mechanical integrity test (MIT) conducted on July 12, 2008. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before July 12, 2013.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless EPA is notified and procedures are described to EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

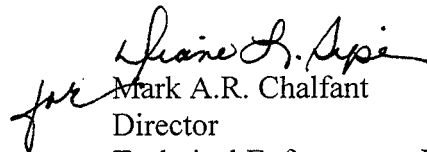
**RECEIVED**

**OCT 02 2008**

**DIV. OF OIL, GAS & MINING**

If you have any questions concerning this letter, you may contact Nathan Wiser at (303) 312-6211. Please direct all correspondence to the attention of Nathan Wiser at Mail Code 8ENF-UFO.

Sincerely,

  
Mark A.R. Chalfant  
Director  
Technical Enforcement Program

cc: Curtis Cesspooch, Chairman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Michelle Sabori Acting Environmental Director  
Ute Indian Tribe  
P.O. Box 460  
Fort Duchesne, Utah 84026

Gil Hunt  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114